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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/684,054 10/10/2003		Mark A. Fodor	8295/DSM/BCVD/JW 5247		
44182	7590 03/25/2005		EXAMINER		
MOSER, PA	ATTERSON & SHER	FUQUA, SHAWNTINA T			
APPLIED M	ATERIALS INC				
595 SHREW	SBURY AVE	ART UNIT	PAPER NUMBER		
SUITE 100			3742		
SHREWSBU	IRY, NJ 07702				

DATE MAILED: 03/25/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicatio	n No	Applicant(s)				
					$\langle V \rangle$			
	Office Action Summary	10/684,05	4	FODOR ET AL.				
omec Action Cummary		Examiner		Art Unit				
	The MAII ING DATE of this communication an	Shawntina	·	3742	000			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
THE - Exte after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a repl period for reply is specified above, the maximum statutory period into the reply within the set or extended period for reply will, by statut reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	.136(a). In no eve ply within the statu d will apply and wil te, cause the appli	nt, however, may a reply be tim tory minimum of thirty (30) day: Lexpire SIX (6) MONTHS from cation to become ABANDONE	nely filed s will be considered timely. the mailing date of this comm D (35 U.S.C. § 133).	nunication.			
Status								
1)🖂	Responsive to communication(s) filed on 05 J	January 2005	5.					
·								
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
<ul> <li>4)  Claim(s) 1-23 is/are pending in the application.</li> <li>4a) Of the above claim(s) 5,7,12,17 and 20 is/are withdrawn from consideration.</li> <li>5)  Claim(s) 22 and 23 is/are allowed.</li> <li>6)  Claim(s) 1-3,6,8-10,13-15,18 and 21 is/are rejected.</li> <li>7)  Claim(s) 4,11,16 and 19 is/are objected to.</li> <li>8)  Claim(s) are subject to restriction and/or election requirement.</li> </ul>								
Applicat	ion Papers							
10)🖾	The specification is objected to by the Examinative The drawing(s) filed on 10/10/03, 10/1/04 is/ar Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the E	re: a)⊠ acce e drawing(s) be ction is require	e held in abeyance. See	e 37 CFR 1.85(a). ected to. See 37 CFR	1.121(d).			
Priority (	under 35 U.S.C. § 119							
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>								
2) Notice 3) Information	ct(s)  te of References Cited (PTO-892)  te of Draftsperson's Patent Drawing Review (PTO-948)  mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08  ter No(s)/Mail Date 12/24/03.	3)	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite	52)			

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### **DETAILED ACTION**

#### Election/Restrictions

- 1. Claims 5, 7, 12, 17, and 20 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected species there being no allowable generic or linking claim. Applicant timely traversed the restriction (election) requirement in the reply filed on 1/5/05.
- 2. Applicant's election with traverse of Species B, claims 1-4, 6, 8-11, 13-16, 19, and 21-23 in the reply filed on 1/5/05 is acknowledged. The traversal is on the ground(s) that the Examiner has not demonstrated a serious search burden. This is not found persuasive because the species are mutually exclusive and patentable distinct and are disclosed as separate embodiments.

The requirement is still deemed proper and is therefore made FINAL.

## Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-3, 6, 8-10, 13-15, 18, and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chen et al (US6231674) in view of Yudovsky et al (US6589352).

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Chen et al discloses a substrate heater for supporting a substrate comprising a body (61) having an upper and lower surface, a heating element (54) embedded within the body, a substrate support surface in the upper surface and defining a substrate receiving pocket (Figure 2), an annular wall (36) perpendicular to the upper surface and having a length at least one half a thickness of the substrate, the wall bounding an outer perimeter of the substrate receiving pocket and having a diameter less than .5 mm greater than substrate diameter (Figure 1), a ring (24) disposed in the substrate receiving pocket wherein the wall is a portion of an inner diameter of the ring (Figure 2), the ring including a bevel (36) flaring outward, the ring has an annular flange radially outward wherein the height is about .7-7 mm and a ratio of the height to width of the ring is between .05:1-.5:1 (Figure 2), the bevel tapers outward with an upward angle of 10-40 degrees, the height of the lip is .5-5 mm and the ratio of the height to the width of the lip is between 0.3:1 and 3:1 and inner portion is tapered outward and upward at an angle of 10-40 degrees (Figure 2). Chen et al does not disclose a ceramic ring and heater. Yudovsky et al discloses a ceramic ring (15; Figure 1; column 3, lines 46-48). It would have been obvious to one of ordinary skill in the art at the time the invention was made to have made the ring of ceramic as disclosed by Yudovsky et al in the apparatus Chen et al because, ceramic has a low coefficient of thermal expansion.

## Allowable Subject Matter

5. Claims 22-23 are allowed.

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6. Claims 4, 11, 16, and 19 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the

base claim and any intervening claims.

7. The following is a statement of reasons for the indication of allowable subject matter: the prior art of record neither discloses nor suggests the bevel is a continuous lip extending beyond the upper surface and circumscribing the wall.

Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shawntina T. Fuqua whose telephone number is (571) 272-4779. The examiner can normally be reached on Monday-Friday 8-4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robin Evans can be reached on (571) 272-4777. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

stf

March 19, 2005

Shawntina Fuqua Patent Examiner Art Unit 3742

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